NATSAG ESC Top-10 Ranking Process

NATSAG 2004

Agenda

- Criterium DecisionPlus (CDP) Overview
- NATSAG ESC Program Ranking Process
- Summary

CDP Summary

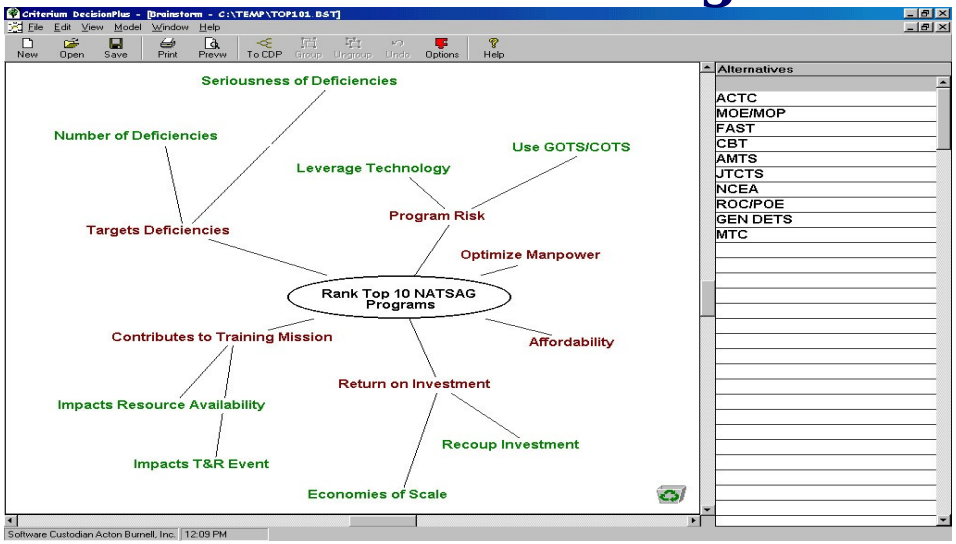
- **Easy to use COTS software that:**
  - **Provides a structured methodology for the NATSAG decision making process**
  - **Facilitates ESC organization and communication**
  - **Provides an audit trail of the elements that went into the ranking process**
  - **Provides excellent displays for follow-on leadership decisions**
  - **Ranks programs**

What are the Advantages to Criterium DecisionPlus?

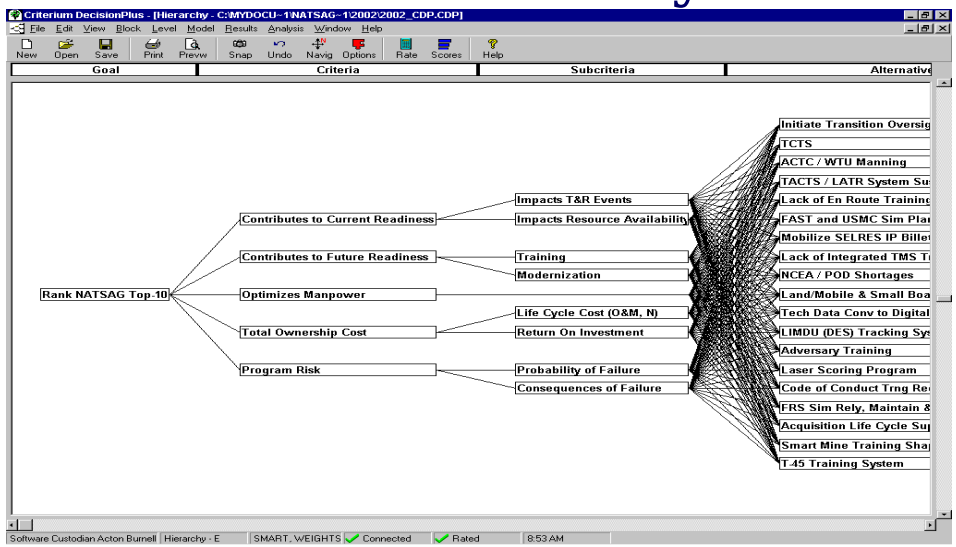
- Structured methodology
- Visually oriented
- Analysis of decision criteria
- Precise and supportable decisions
- Facilitates group decision making

CDP Methodology

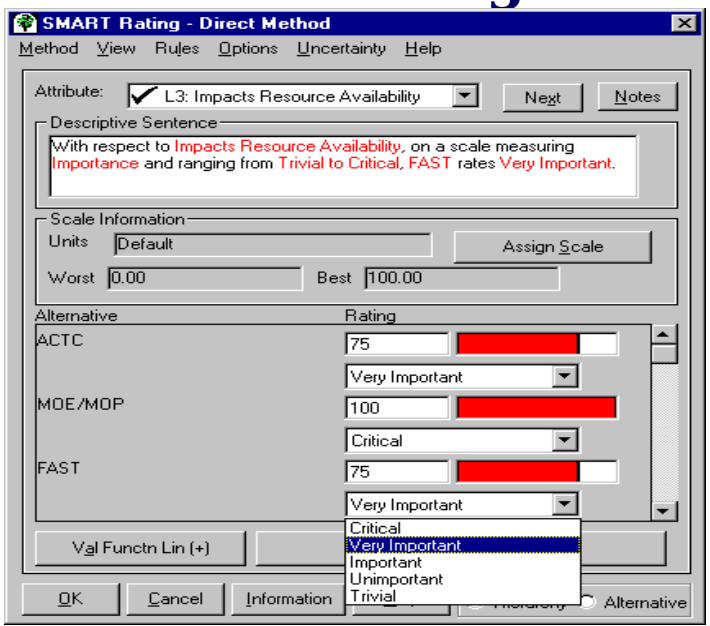
1. Brainstorming



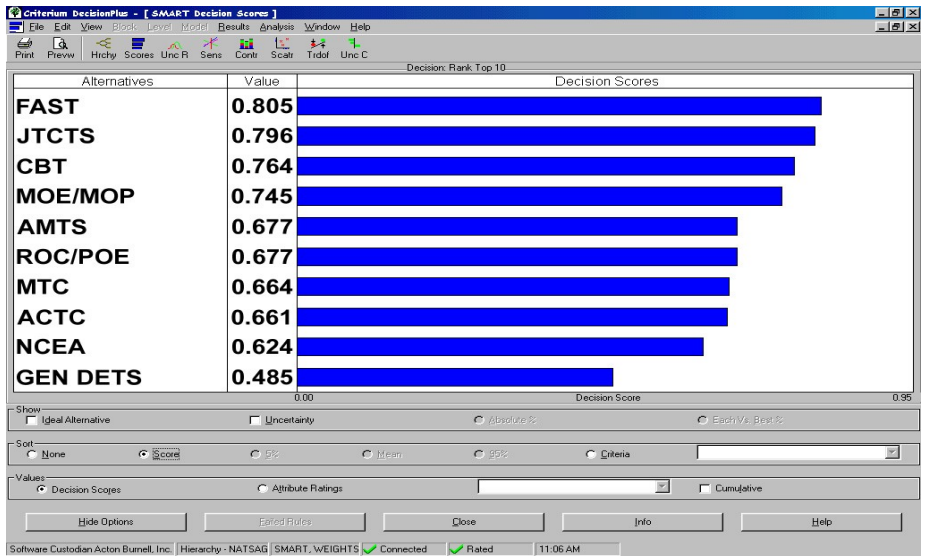
2. Hierarchy



3. Rating



4. Decision Scores



NATSAG ESC Session - Ranking Process

resent criteria and programs

ESC rates programs u
Excel spreadsheet

Compile spreadsheets & enter into CD

Top 10 NATSAG Training Programs (example)

Decision: Rank Top 10

Alternatives	Value	Decision Scores
FAST	0.805	
JTCTS	0.796	
CBT	0.764	
MOE/MOP	0.745	
AMTS	0.677	
ROC/POE	0.677	
MTC	0.664	
ACTC	0.661	
NCEA	0.624	
GEN DETS	0.485	

0.00 Decision Score

Notional Display

Criteria Evolution

1999	2000-2001	2002 - Present
Contributes to Training Mission ➳ Impacts T&R Events ▯ Impacts Resource Availability	**Contributes to Training Mission** ▯ Impacts T&R Events ▯ Impacts Resource Availability	**Contributes to Current Readiness** ▯ Impacts T&R Events ▯ Impacts Resource Availability
Targets Deficiencies ▯ Number of deficiencies ▯ Seriousness of deficiencies	**Targets Deficiencies** ▯ Number of deficiencies ▯ Seriousness of deficiencies	**Contributes to Future Readiness** ▯ Training ▯ Modernization
Optimize Manpower	**Optimize Manpower** ▯ Reduces Manpower ▯ Improves Effectiveness	**Optimizes Manpower**
Return On Investment ▯ Economies of Scale ▯ Recoup Investment	**Total Ownership Cost** ▯ Life Cycle Cost (O&M,N) ▯ Return On Investment ▯ Non-Recurring Engineering	**Total Ownership Cost** ▯ Life Cycle Cost (O&M,N) ▯ Return On Investment
	Program Risk ▯ Probability of failure ▯ Consequences of failure	**Program Risk** ▯ Probability of failure ▯ Consequences of failure
Affordability		

Current Criteria/Subcriteria

- Contributes to Current Readiness
  - Impacts T&R Events - # of T/M/S and # of events
  - Impacts Resource Availability and/or Deficiencies - people, planes, parts, petrol, and ranges
- Contributes to Future Readiness
  - Training - quality of training, Time-to-Train, pipeline efficiency
  - Modernization - delivers new technology, capability, or next generation of current capability
- Optimizes Manpower - results in optimal manpower required to perform the job or function
- Total Ownership Cost - all costs associated with the research, development, procurement, operation, logistical support and disposal including total supporting infrastructure
  - Life Cycle Cost (O&M,N) - operation and maintenance resources needed to support approved programs
  - Return on Investment - value received for resources expended (price of buy recovered in 2 years)
- Program Risk - a measure of the inability to achieve overall program objectives within defined cost, schedule, and technical constraints

NATSAG Ranking Scale

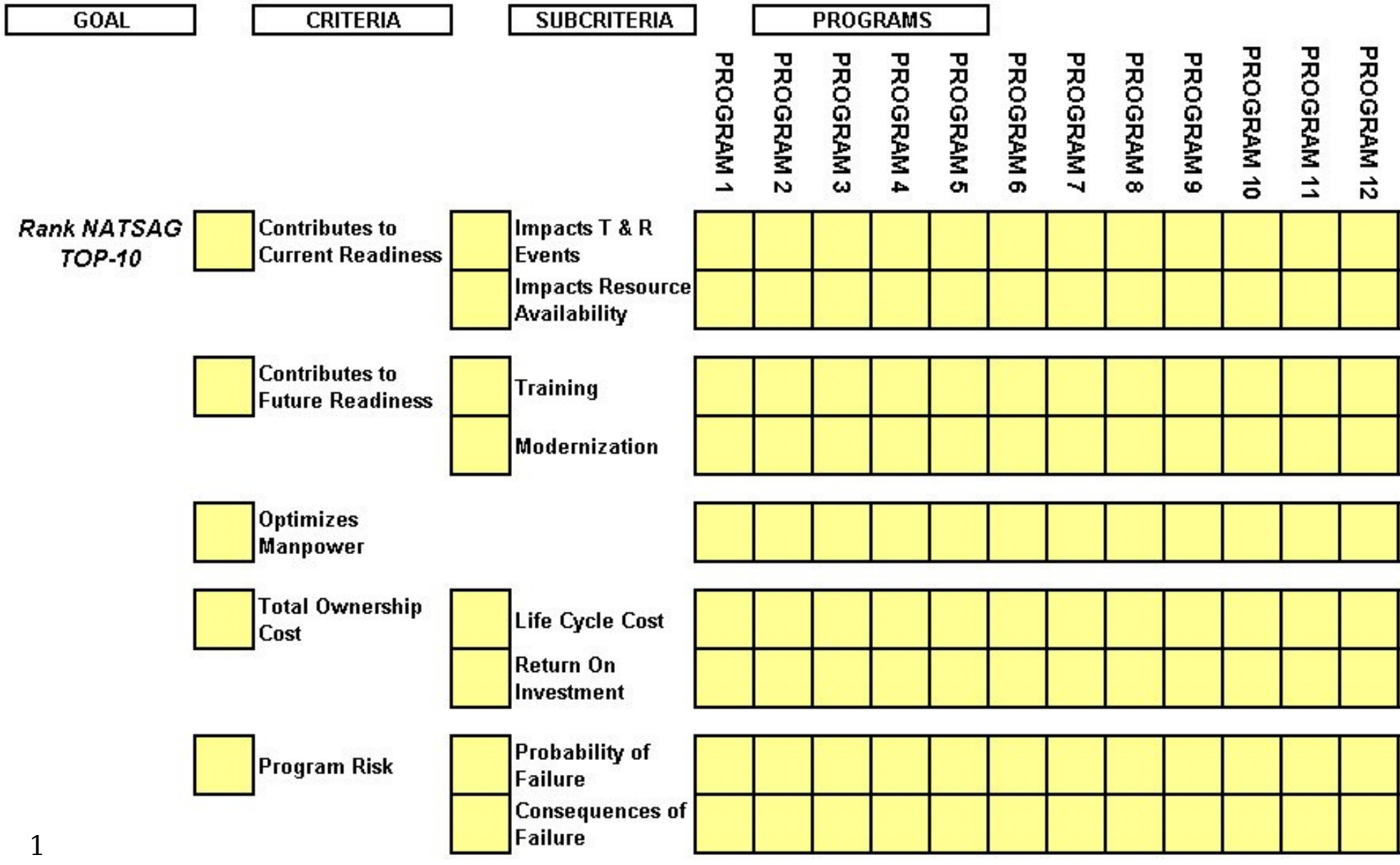
- LT ranking "process" and methodology
  - Three major qualitative groups, equivalent of pack plus, pack, and pack minus

✔ Scale subcategorized into three qualitative values

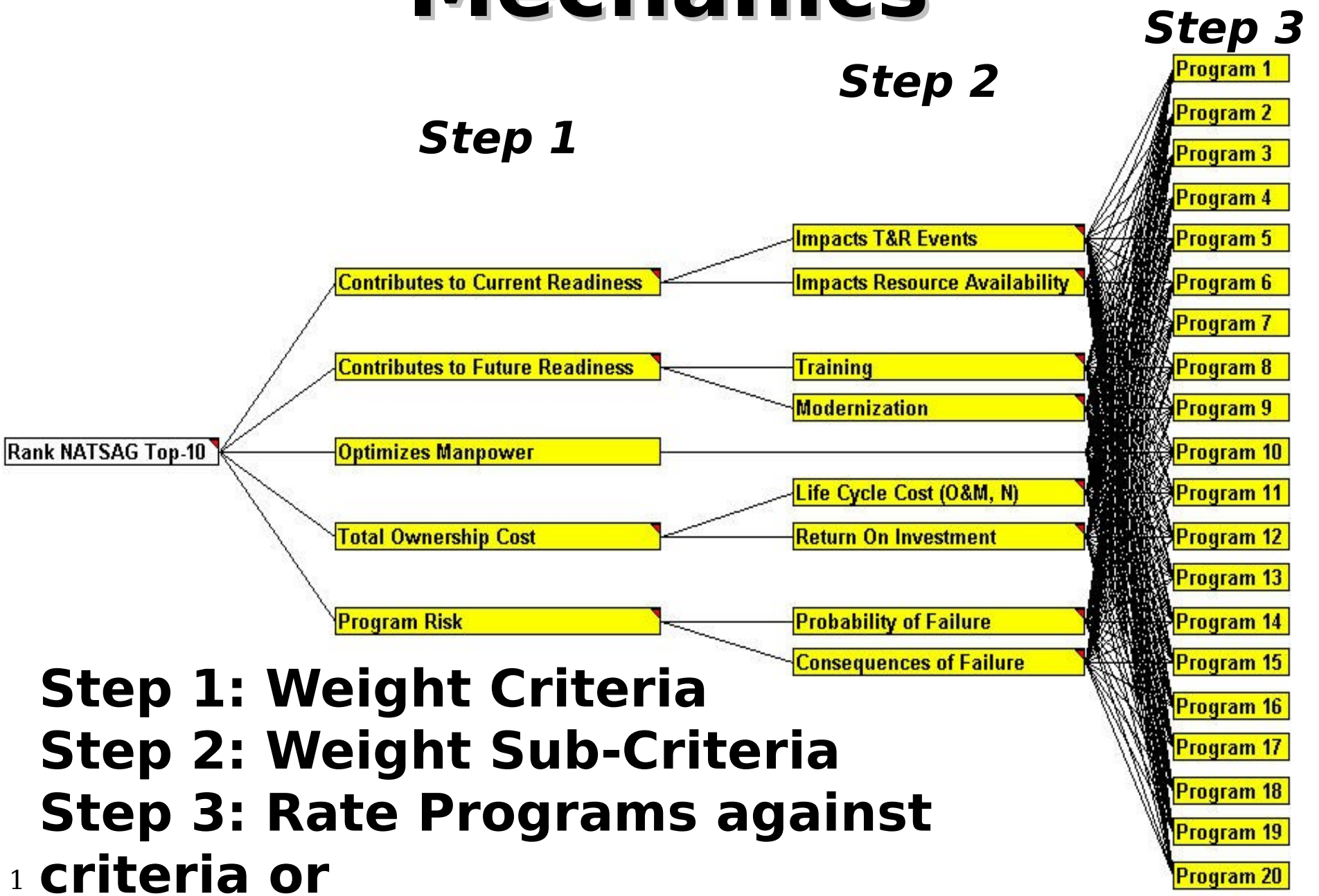
✦ Added Not Applicable (NA) as separate category

9 - Significant (High)
8 - Significant (Medium)
7 - Significant (Low)
Pack-plus
6 - Moderate (High)
5 - Moderate (Medium)
4 - Moderate (Low)
Pack
3 - Limited (High)
2 - Limited (Medium)
1 - Limited (Low)
Pack-minus
0 - *Not Applicable*

Rating NATSAG Criteria & Programs in Excel

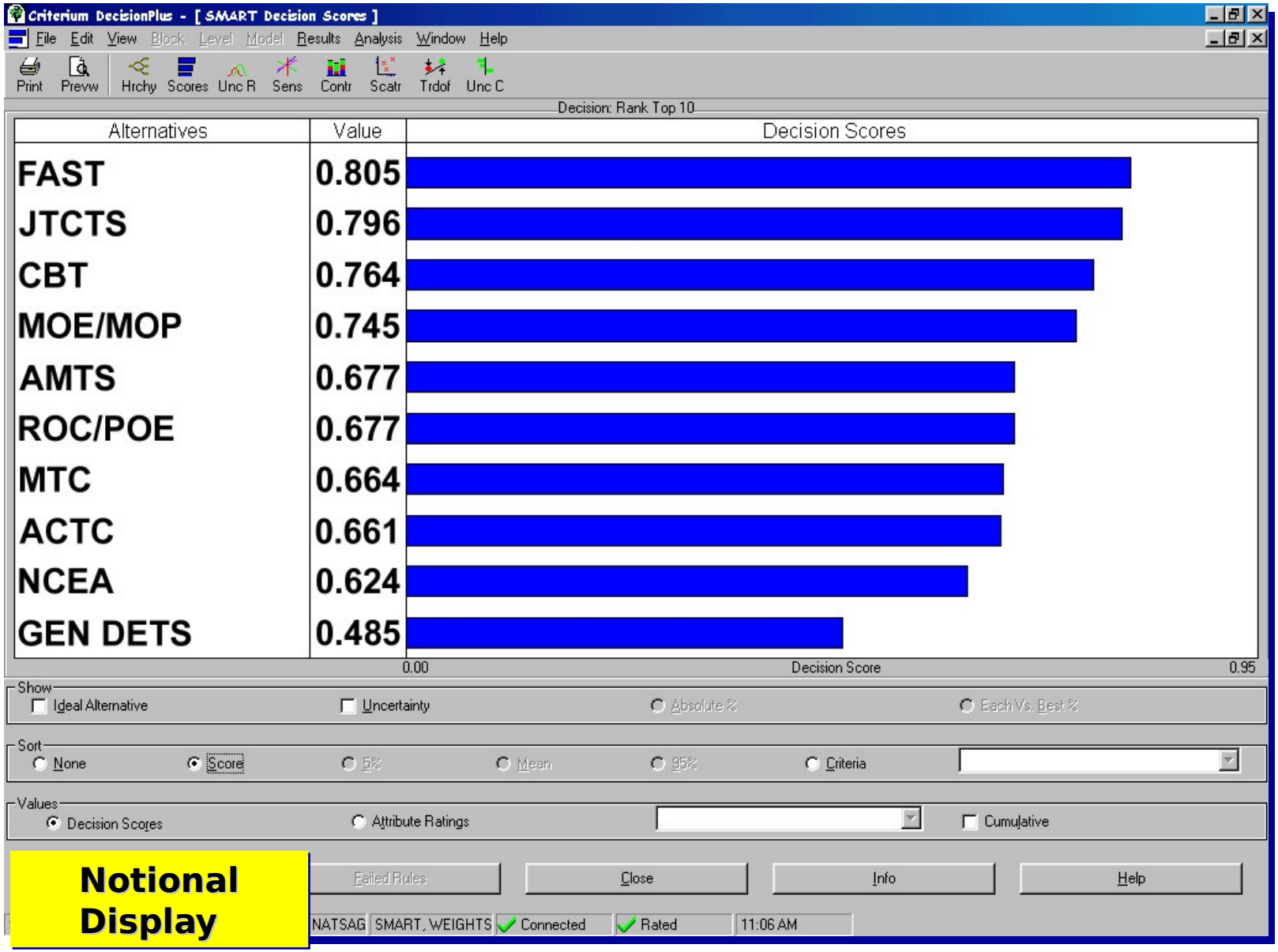


Ranking Mechanics



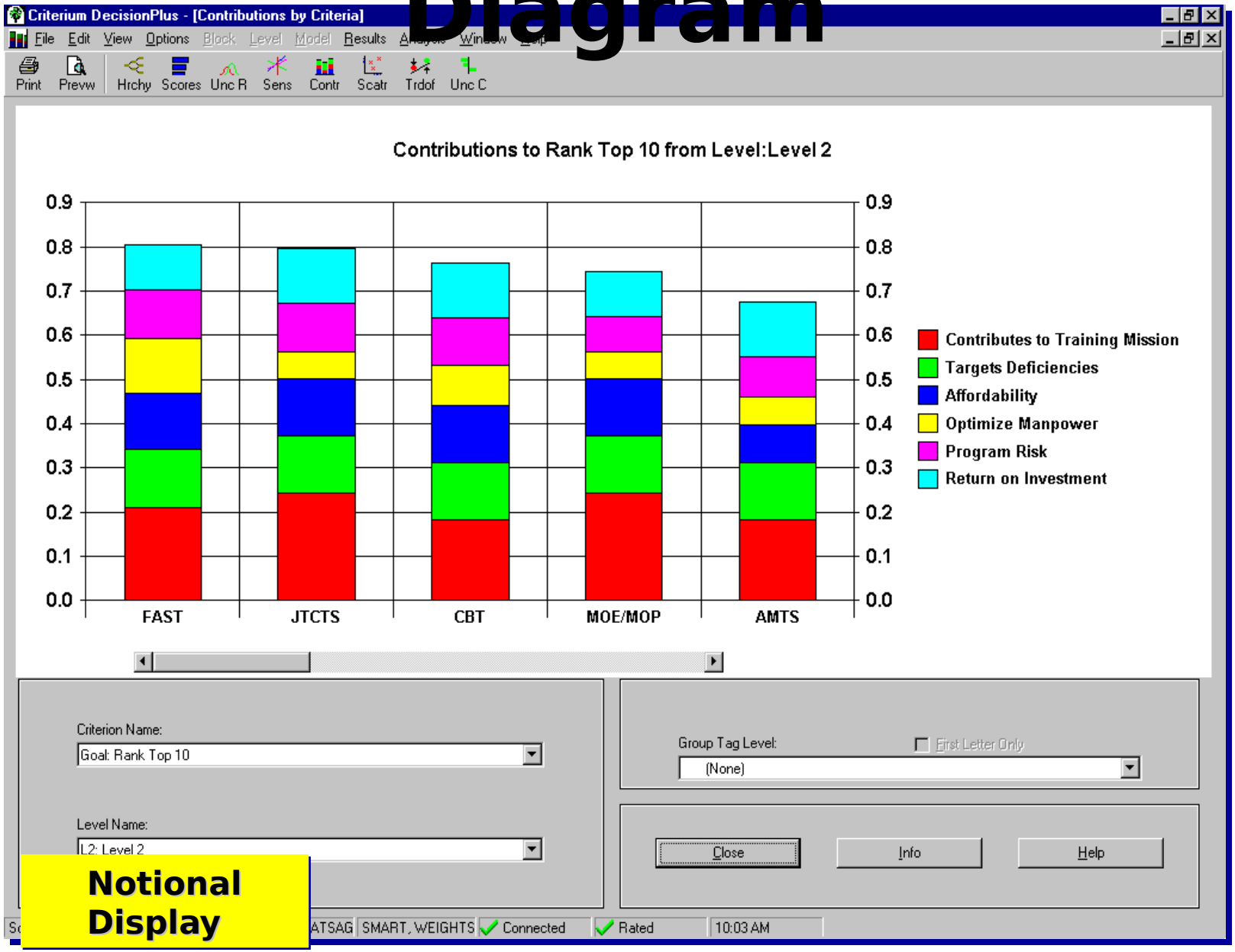
Step 1: Weight Criteria
Step 2: Weight Sub-Criteria
Step 3: Rate Programs against criteria or

Decision Scores



Notional Display

Criteria Contribution Diagram



Notional Display

CDP Advantages at NATSAG

- Remove the emotional aspect of ranking
- Programs likely to be ranked on their merit
- Restrict personal agendas
- Create better product going into PPBS process

NATSAG 2003 "Vetted" TOP-10

1. FAST and USMC Simulator Plans
2. Training Pipeline Inefficiencies
3. T-45 TS Inventory/Avionics Modernization Progra
4. NCEA / PODS Shortages
5. Maintainability / Reliability & Configuration of S
6. Maintenance CBT Introduction
7. Range Improvements & Target Availability
8. Life Cycle Support of Maintenance Training Syst
9. Tech Data Conversion to IETMS Format
10. Training Management System Integration/Single

Immediate Special Interest Items

- FRS ISD Tools (license rights access)
- Exec. Decision for UAV Strategic Roadmap/Manpower

Started with the CDP results, followed by ESG vetting to create this final NATSAG Top-10 List.

2003 Comparison of Rankings

CDP - All NATSAG	CDP - OPNAV / NAVAIR	CDP - FLEET / TYCOM
1. FAST and USMC SIM Plans	1. FAST and USMC SIM Plans	1. FAST and USMC SIM Plans
2. Training Pipeline Inefficiencies	2. Training Pipeline Inefficiencies	2. FRS ISD Tools (license rights access)
3. Maintainability/Reliability/Config of Sims	3. Maintainability/Reliability/Config of Sims	3. Training Pipeline Inefficiencies
4. T-45TS Modernization Prog.	4. T-45TS Modernization Prog.	4. Maintainability/Reliability/Config of Sims
5. Maintenance CBT Introduction	5. Maintenance CBT Introduction	5. TH-57 Cockpit Upgrade
6. NCEA / PODS	6. NCEA / PODS	6. T-45TS Modernization Prog.
7. FRS ISD Tools (license rights access)	7. Tech Data Convert to IETMS Format	7. NCEA / PODS
8. Range Improvement & Tgt Availability	8. LCS of Maintenance Training Sys.	8. Maintenance CBT Introduction
9. LCS of Maintenance Training Sys.	9. Range Improvement & Tgt Availability	9. Range Improvement & Tgt Availability
10. Tech Data Convert to IETMS Format	10. FRS ISD Tools (license rights access)	10. Trng Mgmt Sys (TMS) Integration
11. TH-57 Cockpit Upgrade	11. UAV Strategic Roadmap	11. WTU Manning
12. Trng Mgmt Sys (TMS) Integration	12. Trng Mgmt Sys (TMS) Integration	12 . LCS of Maintenance Training Sys.
13. WTU Manning	13. Shallow Water ASW Database	13. Shallow Water ASW Database
14. UAV Strategic Roadmap	14. TH-57 Cockpit Upgrade	14. Tech Data Convert to IETMS Format
15. Shallow Water ASW Database	15. WTU Manning	15. UAV Strategic Roadmap

➡ **Eight programs in top ten for all groups**

NOTES